# CEDAR CHEMICAL CORPORATION

Helena-West Helena

Public Meeting and Public Hearing

## Site Description

- The Site is about 48 acres
- Bordered by Industrial, Rail, and Agricultural Properties
- 6 Process Units
- Offices
- Storage Buildings
- Wastewater Treatment Ponds



### Operational History

- Constructed and Commenced Operations
   ~1970
- Manufactured Insecticides, Herbicides,
   Polymers, Organic Intermediates, and other Chemicals.
- Ceased Operations ~2002
- ADEQ assumed control of the Site ~2002

### ADEQ ACTIONS

- **2002:** Cedar Chemical Company abandoned the site on October 18, 2002. ADEQ assumed security and maintenance of the plant in October 2002.
- 2003: ADEQ/EPA Region 6 conducted removal action to empty abandoned production units/labs
- 2004 2005: ADEQ conducted three unsuccessful campaigns to attract a new operator for the plant; no viable offers made.
- **2006:** ADEQ initiates action to institute remedial action for site under RATFA and continues work to attract a new operator for the plant, and files lawsuit against potentially responsible parties
- 2007, March 22: ADEQ enters into a Settlement Agreement with:
  - Ansul Inc. (Wormald US, Inc.)
  - Helena Chemical Company
  - Exxon Mobile Chemical Company

## ADEQ ACTIONS – Review of Reports

- November 2007: Current Conditions Report
  - Summarized available data on groundwater & soil
  - Identified data gaps likely to affect Remedy Selection
- January 2008: Facility Investigation Workplan
  - Scope of Work to address data gaps
- March 2008: Commenced field work (soil and groundwater)
- May 2008: Supplemental Workplan (Proposed New Well Locations)
- October 2008: Facility Investigation Report Submitted [January to July 2008 Investigations]
- June, August, and December 2009: Feasibility Study Reports Submitted

#### What All Has This Involved?

- Groundwater Well Installation
- Surveying
- Drum Vault Evaluation
- Groundwater Sampling
- Aquifer Testing (Alluvial Aquifer)
- Well Surveys
- Data Evaluation
- Report Preparations/Reviews
- Numerous Site Visits
- ADEQ Estimates that Since 2002 >\$3,000,000 has been spent on Controlling and Investigating the Site

## RECOMMENDED REMEDIES IN THE RADD

- Soils
  - Source Control
    - Stabilization (Dinoseb Ponds) using in-situ mixing [extend to top of perched groundwater zone]
    - Soil Vapor Extraction [treatment with carbon adsorption or thermal oxidation/acid scrubbing]
  - Exposure Control
    - Soil Cover in Process Area (e.g., asphalt)
    - Geotextile Line Storm Water Collection Ditch Area; Revegetate
    - Institutional Controls (e.g., deed notices; restrictive covenants; industrial use only]
- Perched Groundwater
  - Contaminant Mass Reduction via Pilot Study
  - Institutional Controls (e.g., deed notices)
- Allluvial Groundwater
  - In-Situ Enhanced Biodegradation
  - Institutional Controls (e.g., deed notices)

## RECOMMENDED REMEDIES IN THE RADD

- Wastewater Treatment Ponds
  - Removal of Free Liquids
  - Removal or Stabilization of Sediments/Sludge
  - Regrade the Area
  - Decommission the piping and other ancillary equipment

Note: This would be the last thing to be accomplished so that the WWTX system could be used to collect site runoff.

## RECOMMENDED REMEDIES IN THE RADD

- Drum Vault
  - Demolition and Removal of Drum Vault Warehouse Building
  - Remove Concrete Floor of Warehouse
  - Dewater Drum Vault Backfill. [All water will be stored and characterized for appropriate disposal]
  - Transfer of Drums or portions of drums and backfill material into lined transport trucks.
  - Clean residual drum, waste, or backfill material from Drum Vault
  - Backfill Drum Vault with clean, low permeability fill

Note: All Above Ground Portions of Buildings, Process Units, Tank Systems, and related site structures will be demolished or deconstructed.



BUILDINGS AND OTHER STRUCTURES TO BE REMOVED

#### **DEMOLITION OF ON-SITE STRUCTURES**



Demolition of On-Site Structures

Cedar Chemical Helena-West Helena, Arkansas

AMEC Geomatrix

Figure 18

OTE: Boundaries, well locations, and remedy elements subject





BOIL STABILIZATION AREA

PROPERTY BOUNDARY

## SOIL REMEDY ALTERNATIVES (In Situ)

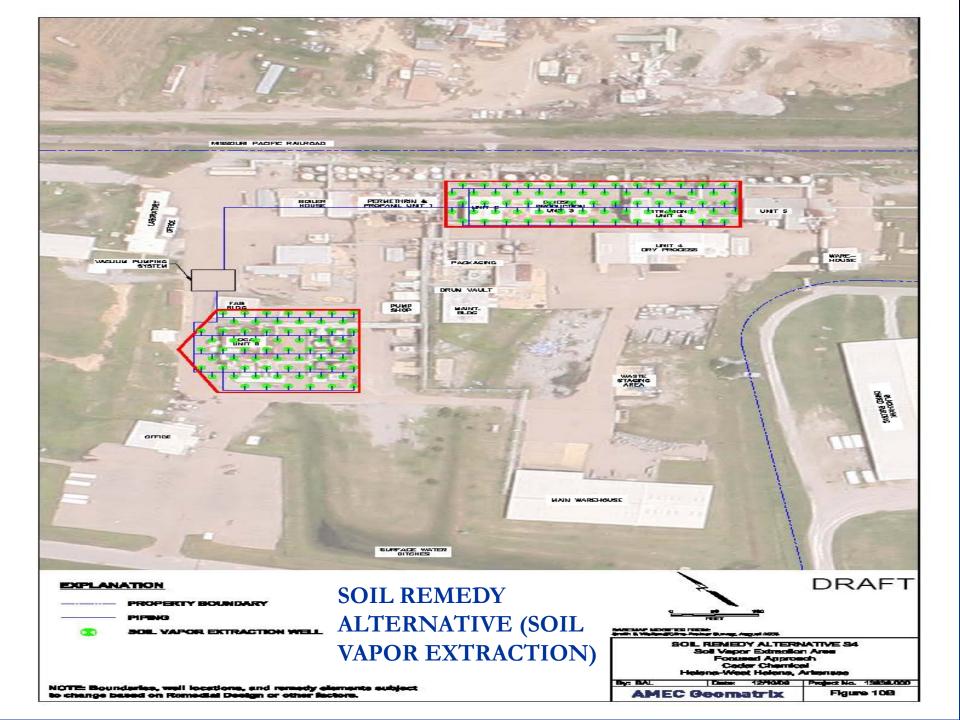
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SOIL REMEDY ALTERNATIVE S2 In Situ Stabilization Area Focused Approach Ceder Chemical

By: BAL | Date: 129000 Project No. 15854.

AMEC Geomatrix Figure 88

NOTE: Boundaries, well locations, and remedy elements subject to change based on Romedial Design or other factors.





#### WHERE ARE WE NOW?

- Public Notice of the Remedial Action Decision Document (RADD).
- Public Comment Period Closes March 25, 2010.
- Review and consider any comments received during the public comment period and hearing.
- Issue a final RADD

## Any Questions?

- Contact Information:
  - Ryan Benefield, Deputy Director
    - **682-0960**
    - benefield@adeq.state.ar.us
  - Clyde E. Rhodes, Jr., Chief, Hazardous Waste Division
    - **682-0831**
    - rhodes@adeq.state.ar.us
  - Tammie J. Hynum, Manager, Hazardous Waste Division
    - **682-0856**
    - hynum@adeq.state.ar.us